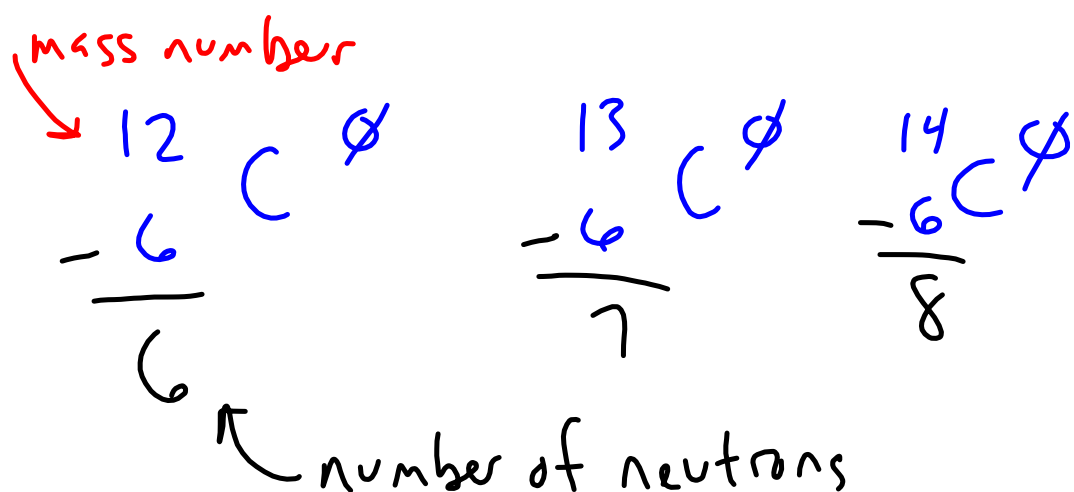


Isotopes \rightarrow same element, different
of neutrons

- All atoms technically are isotopes
- Carbon - 12

element name - mass number

mass number



Ions → atoms that have gained or lost e^-



charge is gaining or losing e^-

$$p^+ = 9 \quad n^0 = 10 \quad e^- = 10$$



$$p^+ = 19 \quad n^0 = 20 \quad e^- = 18$$